

PAT-NO: JP403051956A
DOCUMENT-IDENTIFIER: JP 03051956 A
TITLE: AUTOMATIC TELLER MACHINE
PUBN-DATE: March 6, 1991

INVENTOR-INFORMATION:
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APPL-NO: JP01187177
APPL-DATE: July 19, 1989

INT-CL (IPC): G06F015/30, G06K017/00 , G07D009/00

ABSTRACT:

PURPOSE: To improve the convenience of the ATM by reading, totalizing, and displaying transaction history data stored on an IC card when a transaction is carried on by using an IC card.

CONSTITUTION: The ATM is equipped with the microcomputer consisting of a main CPU 30, a ROM 31, and a RAM 32, a CRT control part 34, a card reader 36, etc., and reads, totalizes, and displays the transaction history data stored on the IC card when the transaction is made by using the IC card. Consequently, a user can confirm the totalization result up to the current point every time a transaction is made and released from the trouble of totalizing calculation after data is read out of the IC card unlike before and the totalization and

display processing are carried out in parallel to the money
input/output
processing of paper currency, etc., specially after transaction
contents are
inputted. Further, waiting time which has been wasted heretofore can
be
utilized effectively.

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EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| S39 | 5 | S38 and (smart IC) adj1 card | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 16:09 |
| S38 | 31 | (compar\$3 match\$3) with balance with terminal with data | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 16:08 |
| S37 | 31 | S21 and S36 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 13:27 |
| S36 | 5195 | (compar\$4 match\$3) with first with second with (data record transaction) with set | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 13:26 |
| S34 | 105 | (compar\$4 match\$3) with first with second with (data transaction) with (lost missing deleted) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 13:25 |
| S30 | 170 | S21 and (compar\$4 match\$3 evaluat\$3) with first with second with (data transaction) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:55 |
| S33 | 1 | S32 and (missing lost) near3 data | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:54 |
| S32 | 9 | S22 and S30 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:54 |

EAST Search History

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|-----|------|---|---|----|----|------------------|
| S31 | 7 | S21 with (compar\$4 match\$3 evaluat\$3) with first with second with (data transaction) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:43 |
| S29 | 128 | S21 and (compar\$4 match\$3 evaluat\$3) with terminal with data | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:41 |
| S28 | 13 | S21 with (compar\$4 match\$3 evaluat\$3) with terminal | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:34 |
| S26 | 300 | S21 with (compar\$4 match\$3 evaluat\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:32 |
| S27 | 14 | S25 and S26 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:11 |
| S24 | 1778 | S21 with (us\$3 utiliz\$5 exploit\$5) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:08 |
| S25 | 78 | S22 and S24 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:07 |
| S22 | 165 | S21 with (smart IC) adj2 card | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:04 |

EAST Search History

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|-----|------|--------------------------|---|----|----|------------------|
| S23 | 668 | S21 with card | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 12:00 |
| S21 | 4786 | transaction with history | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/05/02 11:59 |